In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown. Please cancel claims 2, 12 and 23 without prejudice.

1. (Currently Amended) A computer system comprising:

a bus; and

a chipset, coupled to the bus, having:

a slew rate detection mechanism to detect a slew rate of a signal transmitted from the chipset over the bus and to generate a signal indicating a status of the slew rate; and

control logic, coupled to the slew rate detection mechanism, to receive the signal and to adjust the slew rate based upon the state of the signal.

~~to detect the slew rate of a signal transmitted over the bus via the chipset, and to adjust the slew rate based upon the state of the signal.~~

2. (Cancelled)

3. (Original) The computer system of claim 1 wherein the chipset further comprises an input/output (I/O) buffer coupled to the control logic.

4. (Currently Amended) The computer system of claim 1 ~~2~~ wherein the control logic reduces the slew rate if the signal received from the slew rate detection mechanism indicates that the slew rate is too fast.

5. (Currently Amended) The computer system of claim 1 ~~2~~ wherein the control logic increases the slew rate if the signal received from the slew rate detection mechanism indicates that the slew rate is too slow.

6. (Currently Amended) The computer system of claim 1 ~~2~~ wherein the slew rate detection mechanism includes a capacitor, coupled to the bus, to integrate the received signal current.

7. (Original) The computer system of claim 6 wherein the slew rate detection mechanism further includes:

a reference current generator to generate a reference current; and

a comparator to compare the received signal current to the reference current.

8. (Original) The computer system of claim 7 wherein the slew rate detection mechanism further includes:

a first converter, coupled to the capacitor and the comparator to convert the signal current to a signal voltage; and

a second converter, coupled to the reference current generator and the comparator to convert the reference to a reference voltage.

9. (Original) The computer system of claim 6 wherein the comparator is an operational amplifier.

10. (Original) The computer system of claim 1 wherein the bus is a high-speed bus.

11. (Currently Amended) A computer system comprising:

a main memory device;

a memory bus coupled to the main memory device; and

a memory controller, coupled to the bus, having:

a slew rate detection mechanism to detect a slew rate of a signal transmitted from the memory controller over the bus and to generate a signal indicating a status of the slew rate; and

control logic, coupled to the slew rate detection mechanism, to receive the signal and to adjust the slew rate based upon the state of the signal.

~~to detect the slew rate of a signal transmitted over the bus via the chipset, and to adjust the slew rate based upon the state of the signal.~~

12. (Cancelled)

13. (Currently Amended) The computer system of claim 11 ~~12~~ wherein the control logic reduces the slew rate if the signal received from the slew rate detection mechanism indicates that the slew rate is too fast.

14. (Currently Amended) The computer system of claim 11 ~~12~~ wherein the control logic increases the slew rate if the signal received from the slew rate detection mechanism indicates that the slew rate is too slow.

15. (Currently Amended) The computer system of claim 11 ~~12~~ wherein the slew rate detection mechanism includes a capacitor, coupled to the bus, to integrate the received signal current.

16. (Original) The computer system of claim 15 wherein the slew rate detection mechanism further includes:

a reference current generator to generate a reference current; and

a comparator to compare the received signal current to the reference current.

17. (Original) The computer system of claim 16 wherein the slew rate detection mechanism further includes:

a first converter, coupled to the capacitor and the comparator to convert the signal current to a signal voltage; and

a second converter, coupled to the reference current generator and the comparator to convert the reference to a reference voltage.

18. (Original) A method comprising:

transmitting a signal from an input/output (I/O) buffer within a chipset over a bus;

receiving the signal at a slew rate detection mechanism within the chipset via the bus;

generating a signal indicating the status of the slew rate; and

adjusting the slew rate at control logic within the chipset based upon the signal.

19. (Original) The method of claim 18 further comprising generating a reference current at the chipset.

20. (Original) The method of claim 19 further comprising:

converting the signal current to a signal voltage;

converting the reference current to a reference voltage; and

comparing the reference voltage to the signal voltage.

21. (Original) The method of claim 18 wherein adjusting the slew rate comprises modifying the amplification of a second signal at the I/O buffer.

22. (Currently Amended) An apparatus comprising:

a slew rate detection mechanism to detect the slew rate of a signal transmitted from a memory controller over a bus ~~via the memory controller, and to adjust the slew rate based upon the state of the signal;~~ and to ~~detect the slew rate and~~ generate a signal to indicate the status of the slew rate. ~~bus~~

23. (Cancelled)

24. (Currently Amended) The computer system of claim 22 ~~23~~ further comprising control logic, coupled to the slew rate detection mechanism, to receive the signal and modify the slew rate based upon the signal.

25. (Original) The apparatus of claim 24 further comprising an input/output (I/O) buffer coupled to the control logic.

26. (Original) The apparatus of claim 22 wherein the slew rate detection mechanism includes a capacitor, coupled to the bus, to integrate the received signal current.

27. (Original) The apparatus of claim 26 wherein the slew rate detection mechanism further includes:

a reference current generator to generate a reference current; and

a comparator to compare the received signal current to the reference current.

28. (Original) The apparatus of claim 27 wherein the slew rate detection mechanism further includes:

a first converter, coupled to the capacitor and the comparator to convert the signal current to a signal voltage; and

a second converter, coupled to the reference current generator and the comparator to convert the reference to a reference voltage.